



Phase 2 Activity Report November 1, 2021

ITEM DESCRIPTION: PROGRESS REPORT

GENERAL NOTES:

1. Refinery De-Inventory Plan Phase 2 continues to be on hold for the next two weeks due to financial constraints
 - De-inventory activities such as the following items will not be executed
 - Cold circulation
 - Hot circulation
 - Steam out
 - Purging
 - The sequence of the scheduled activities is expected to remain the same
 - Operation and Maintenance personnel have been reduced, subject to additional reductions in the future
 - LBR will continue to monitor the units to ensure safety and stability
2. The No. 8 Flare will remain blinded and flare KO drums isolation valves car seal/chain lock closed
3. Potential Phase 2 activities may be reinitiated in 3rd or 4th week of November 2021

- **HIGHLIGHTS – WEEK ENDING – November 1, 2021 No 8 Flare**

1. Period October 26 to November 1, 2021
 - i. All process unit de-inventory activities remain on hold
 - ii. No 8 Flare system remains blinded including the purge gas line
 - iii. **No process units were opened to the flare**
 - iv. The flare KO Drums were also isolated (block valves before the flare blind) and all-process units were kept with corresponding flare heaters blocked in (single isolation)
 - v. No. 7 vaporizer and fuel gas system remained isolated
 2. Fuel Gas CEMS – Continues Emission Monitoring System
 - a. System continued to be isolated as the No 7 vaporizer and fuel gas system was kept down while working at the No 8 Flare CEMS and Panametric probes
 3. Flare 8 CEMS and Panametrics flow meter
 - i. On October 29, Limetree provided EPA with additional materials from Panametric and Extrel and responded to a series of information requests from EPA
 - ii. EPA and Limetree had a technical call on November 1 to discuss the presence of oxygen/propane in the flare tip piping
 - iii. Limetree plans to purge the flare tip of residuals through use of nitrogen gas on November 2. Limetree will purge the flare header from the blind to the flare tip. The procedure is being verified to assure a nitrogen purge prior to installing and removing the main flare header blind.
 4. H₂S Scavenger system continued to be fully functional
- **IoMosaic Independent Observer**
 - IoMosaic representative is on standby to return to the facility upon notification of Phase 2 re-initiation
 - **EPA-OSC – On- Scene Coordinator**
 - i. Continued to have a minimum of twice a day conversations with EPA-OSC regarding activities and schedules
 - ii. Continued working with LBR personnel during the installation and commissioning of the SO₂/H₂S Ambient Monitoring analyzer
 - **SO₂/H₂S Ambient Monitoring Stations Telemetry**
 - ✓ Physical installation of the monitor and telemetry was completed
 - ✓ 1 of 5 monitors was defective; working with manufacturer to get a functional analyzer
 - ✓ Reached an agreement with EPA-OSC to use some of EPA's consumables (i.e., filters) until delivery of LBR purchase items; separate report being issued
 - ✓ One of the SO₂ monitors was not functioning when it came out of the box so we are working to get a loaner shipped to St. Croix so we can ship ours back for repair or replacement. Site 4 (The Church) will not have a SO₂ monitor until we receive the loaner monitor.



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- ✓ The wireless/cellular signals are up and running and data can be monitored by a computer in the Environmental Group
- **Conducted the following activities not requiring the use of the flare system in OSBL piping appurtenant to process units**
 - ✓ Blinded the Sour water strippers
 - ✓ Blinded the HAGO- (Heavy Atmospheric Gas Oil) system in between units
 - ✓ Started blinding the Naphtha system from the Distillate Desulfurizer and the Crude unit

Process units remained the same as previous week

- **No 5 Crude Unit**
Ready to start heat -up and warm circulation
- **No. 3 Vacuum**
Ready to start heat -up and warm circulation
- **No 4 Hydrobon**
Pump out step – 90% completed
- **No 4 Platformer Unit**
Pump out step – 90% completed
- **No. 3 Hydrobon**
Completed pump out
- **No. 6 DD – Distillate Desulfurizer**
Pump out – 80% completed
- **No. 7 DD – Distillate Desulfurizer**
Pump out – 90% completed
- **No. 9 DD – Distillate Desulfurizer**
Pump out – 100% completed
- **PROJECTION FOR THE PERIOD November 1 to November 15, 2021**
- PHASE 2 on hold until notification of additional funding to proceed